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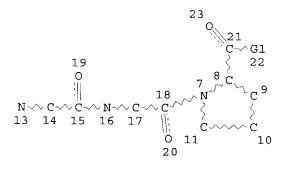
FILE COVERS 1907 - 28 Sep 2004 VOL 141 ISS 14 FILE LAST UPDATED: 27 Sep 2004 (20040927/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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=> d stat que L3

STR



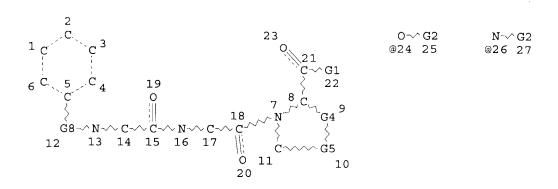
VAR G1=O/N NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 16

STEREO ATTRIBUTES: NONE

L7 248833 SEA FILE=REGISTRY SSS FUL L3

L11 STR



VAR G1=OH/24/NH2/26/29

VAR G2=ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/31

REP G3 = (3-3) C

VAR G4=CH2/34/36/40

VAR G5=CH2/34

VAR G6=OH/ME/ET/I-PR/N-PR/I-BU/N-BU/T-BU/S-BU/31

REP G7 = (0-2) CH2

VAR G8=42/44-5 46-13/48-5 50-13/52-5 54-13/54-5 52-13/50-5 48-13/46-5 44-

13

NODE ATTRIBUTES:

DEFAULT MLEVEL IS ATOM

DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 55

STEREO ATTRIBUTES: NONE

L12 301 SEA FILE=REGISTRY SUB=L7 SSS FUL L11 L17 177 SEA FILE=HCAPLUS ABB=ON PLU=ON L12

L18 10 SEA FILE=HCAPLUS ABB=ON PLU=ON L17 AND (?ALZHE? OR ?NEURO? OR ?COGNIT? OR ?NEURAL? OR ?ISCHE? OR ?LESION? OR ?DEMIN? OR

?SENIL?)

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L18 ANSWER 1 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2004:353133 HCAPLUS

DOCUMENT NUMBER:

140:357670

TITLE:

Preparation of amino acid derivatives for modulating

angiotensin converting enzyme-2 (ACE-2)

INVENTOR(S):

Acton, Susan L.; Ocain, Timothy D.; Gould, Alexandra E.; Dales, Natalie A.; Guan, Bing; Brown, James A.; Patane, Michael; Kadambi, Vivek J.; Solomon, Michael;

Stricker-Krongrad, Alain

PATENT ASSIGNEE(S):

SOURCE:

SA

U.S. Pat. Appl. Publ., 358 pp., Cont.-in-part of U.S.

Ser. No. 870,382.

CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

ENVIOLED.

т. з

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2004082496	A1	20040429	US 2001-999781	20011031
ZA 2001009378	Α	20021114	ZA 2001-9378	20011114
PRIORITY APPLN. INFO.:			US 1999-132034P P	19990430
			US 1999-171052P P	19991216
			US 2000-704216 B2	20001101
			US 2001-870382 A2	20010529
			US 2001-371741P P	20011019

OTHER SOURCE(S): MARPAT 140:357670

AB ACE-2 modulating compds. Z-A-B-E (Z is a zinc coordinating moiety; E is an enzyme coordinating moiety; A is an auxiliary pocket binding moiety; B is a side chain binding moiety) were prepared for the treatment of body weight disorders. Thus, N-[(S)- or (R)-1-carboxy-3-phenylpropyl]-L-leucine was prepared by the solid-phase method and showed ACE-2 inhibitory activity.

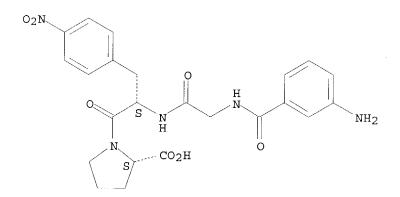
IT 305336-84-9

RL: PAC (Pharmacological activity); BIOL (Biological study) (preparation of amino acid derivs. for modulating angiotensin converting enzyme-2 (ACE-2))

RN 305336-84-9 HCAPLUS

CN L-Proline, N-(3-aminobenzoyl)glycyl-4-nitro-L-phenylalanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L18 ANSWER 2 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

Patent

ACCESSION NUMBER:

2002:609522 HCAPLUS

DOCUMENT NUMBER:

137:163818

TITLE:

Tripeptide derivatives for the treatment of post-

lesional diseases of the nervous system

INVENTOR (S):

Rapin, Jean; Witzmann, Hans Klaus; Grumel, Jean-Marie;

Gonella, Jacques

PATENT ASSIGNEE(S):

Tell-Pharm AG, Switz.

SOURCE:

Ger. Offen., 4 pp.

DOCUMENT TYPE:

CODEN: GWXXBX

Page 3

LANGUAGE: German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PAT	PATENT NO.						DATE			APPL	ICAT	ION	NO.		D	ATE	
	1010	5040			A1						001-					0010	205
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WO	2002	0623	72		A 3		2004	0108									
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		CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	ES,	FI,	GB,	GD,	GE,	GH,
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JP	2004		•	•	•				•			5623	78		2	00202	205
											001-					00102	
											002-					00202	
OTHER SO	PRIORITY APPLN. INFO.: OTHER SOURCE(S): GI				MARI	PAT	137:	1638							-		

The invention discloses the use of cinnamoyl tripeptide derivs. for the treatment of post-lesional neuronal diseases. The cinnamoyl tripeptide derivs. are I [X = OH, C1-5 alkoxy, NH2, NH(C1-5 alkyl), N(C1-5 alkyl)2; R = (preferably) cinnamoyl; R1 = group derived from Phe, Tyr, Trp, Pro, Ala, Val, Leu or Ile; R2 = group derived from Gly, Ala, Ile, Val, Ser, Thr, His, Arg, Lys, Pro, Glu, Gln, pGlu, Asp and Asn; R3, R4 = H, OH, C1-5 alkyl, C1-5 alkoxy, provided that R3 and R4 are not both OH or C1-5 alkoxy; R5 = H, OH, C1-5 alkyl, C1-5 alkoxy], or a pharmaceutical acceptable salt thereof.

IT 123910-57-6

RL: PAC (Pharmacological activity); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(tripeptide derivs. for treatment of post-lesional nervous system diseases)

RN 123910-57-6 HCAPLUS

CN L-Prolinamide, N-(1-oxo-3-phenyl-2-propenyl)glycyl-L-phenylalanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

REFERENCE COUNT:

1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 3 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2002:591566 HCAPLUS

DOCUMENT NUMBER:

137:135103

TITLE:

Tripeptide derivatives for treatment of

neurodegenerative diseases

INVENTOR(S):

Rapin, Jean; Witzmann, Hans Klaus; Grumel, Jean-Marie;

Gonella, Jacques

PATENT ASSIGNEE(S):

Tell-Pharm A.-G., Switz.

SOURCE:

GΙ

Ger. Offen., 10 pp.
CODEN: GWXXBX

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PAT	ENT	NO.			KIN		DATE			APPL					D.	ATE	
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							DK,										
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		LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NO,	NZ,	OM,	PH,
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							YU,										
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							CM,										
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		ΙE,	SI,	LT,	LV,	FI,	RO,	MK,	CY,	AL,	TR						
PRIORITY	PRIORITY APPLN. INFO.											1010	5039	7	A 20	00102	205
										WO 2							
OTHER SO	URCE	(S):			MARI	PAT	137:	1351		2				•	. 20	00202	-05

The invention discloses the use of tripeptide derivs. for treatment of neurodegenerative diseases. The tripeptide derivs. are I [X = OH, C1-5 alkoxy, NH2, NH(C1-5 alkyl), N(C1-5 alkyl)2; R = (preferably) cinnamoyl; R1 = group derived from Phe, Tyr, Trp, Pro, Ala, Val, Leu or Ile; R2 = group derived from Gly, Ala, Ile, Val, Ser, Thr, His, Arg, Lys, Pro, Glu, Gln, pGlu, Asp or Asn; R3, R4 = H, OH, C1-5 alkyl, C1-5 alkoxy, provided that R3 and R4 are not both OH or C1-5 alkoxy; R5 = H, OH, C1-5 alkyl, C1-5 alkoxy], or a pharmaceutically compatible salt. Cinnamoyl-Gly-L-Phe-L-Pro-NH2 was tested in an Alzheimer's disease model.

IT 123910-57-6

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(tripeptide derivs. for treatment of **neurodegenerative** diseases)

RN 123910-57-6 HCAPLUS

CN L-Prolinamide, N-(1-oxo-3-phenyl-2-propenyl)glycyl-L-phenylalanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

L18 ANSWER 4 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2002:391512 HCAPLUS

DOCUMENT NUMBER:

136:402027

TITLE:

Preparation of amino acid derivatives for modulating

angiotensin converting enzyme-2 (ACE-2)

INVENTOR (S):

Acton, Susan L.; Ocain, Timothy D.; Gould, Alexandra E.; Dales, Natalie A.; Guan, Bing; Brown, James A.; Patane, Michael; Kadambi, Vivek J.; Solomon, Michael;

Stricker-Krongrad, Alain

PATENT ASSIGNEE(S):

Millennium Pharmaceuticals, Inc., USA

SOURCE:

PCT Int. Appl., 395 pp.

DOCUMENT TYPE:

CODEN: PIXXD2 Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.

KIND DATE APPLICATION NO. DATE

WO 2002039997 A2 20020523 WO 2001-US45703 WO 2002039997 Α3 20021128

20011031

AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH,

GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,

PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA,

UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,

DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,

BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG AU 2002039454 Α5

20020527 AU 2002-39454 20011031 PRIORITY APPLN. INFO.: US 2000-704216 A 20001101

Α US 2001-870382 20010529 US 2001-371741P Р 20011019 W 20011031 WO 2001-US45703

OTHER SOURCE(S): MARPAT 136:402027

ACE-2 modulating compds. Z-A-B-E (Z is a zinc coordinating moiety; E is an enzyme coordinating moiety; A is an auxiliary pocket binding moiety; B is a side chain binding moiety) were prepared for the treatment of body weight disorders. Thus, N-[(S)- or (R)-1-carboxy-3-phenylpropyl]-L-leucine was prepared by the solid-phase method and showed ACE-2 inhibitory activity. IT

305336-84-9 RL: PAC (Pharmacological activity); BIOL (Biological study) (preparation of amino acid derivs. for modulating angiotensin converting enzyme-2 (ACE-2))

RN305336-84-9 HCAPLUS

CN L-Proline, N-(3-aminobenzoyl)glycyl-4-nitro-L-phenylalanyl- (9CI) INDEX NAME)

Absolute stereochemistry.

L18 ANSWER 5 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2002:23216 HCAPLUS

DOCUMENT NUMBER:

136:275463

TITLE:

AUTHOR(S):

Biodistribution and catabolism of 18F-labeled

neurotensin(8-13) analogs

Bergmann, Ralf; Scheunemann, Matthias; Heichert,

Christoph; Mading, Peter; Wittrisch, Holm;

Kretzschmar, Marion; Rodig, Heike; Tourwe, Dirk;

Iterbeke, Koen; Chavatte, Kris; Zips, Daniel; Reubi,

Jean Claude; Johannsen, Bernd

CORPORATE SOURCE: Institut fuer Bioanorganische und Radiopharmazeutische

Chemie, Forschungszentrum Rossendorf, Germany

Nuclear Medicine and Biology (2002), 29(1), 61-72

CODEN: NMBIEO; ISSN: 0969-8051

PUBLISHER: Elsevier Science Inc.

DOCUMENT TYPE: Journal LANGUAGE: English

SOURCE:

AB 4-([18F]fluoro)benzoyl-neurotensin(8-13) (18FB-Arg8-Arg9-Pro10-Tyr11- Ile12-Leu13-OH, 1) and two analogs stabilized in one and two positions (18FB-Arg8ψ(CH2NH)Arg9-Pro10-Tyr11- Ile12-Leu13-OH, 2, -18FB-Arg8ψ(CH2NH)Arg9-Pro10-Tyr11-Tle12-Leu13-OH, 3) were synthesized in a radiochem. yield of 25-36% and a specific activity of 5-15 GBq/mmol. The peptides were evaluated in vitro and in vivo for their potential to image tumors overexpressing neurotensin receptor 1 (NTR1) by positron emission tomog. (PET). All analogs exhibited in vitro binding affinity in the low nanomolar range to NTR1-expressing human tumors, measured by quant. receptor autoradiog., HT-29 and WiDr cells, and to sections of tumors derived from these cell lines in mice. The radiotracers were internalized in the cells in vitro, and the fluorinated peptides were able to mobilize intracellular Ca2+ of WiDr cells. In in vivo studies in rats and in mice bearing HT-29 cell tumors, only a moderate uptake of the radioligands into the studied tumors was observed, presumingly due to degradation in vivo and fast elimination by the kidneys. In comparison with the other analogs, the specific tumor uptake expressed as tumor-to-muscle relation was highest for the radioligand 3. The blood clearance of 3 was reduced by co-injection of peptidase inhibitors. catabolic pathways of the radiofluorinated peptides were elucidated. results suggest that the high binding affinity to NTR1 and the stabilization against proteolytic degradation are not yet sufficient for tumor

IT 406486-51-9

RL: PKT (Pharmacokinetics); BIOL (Biological study)
(metabolite; biodistribution and catabolism of 18F-labeled
neurotensin(8-13) analogs in relation to their potential to
image tumors overexpressing neurotensin receptor 1 by PET)

RN 406486-51-9 HCAPLUS

imaging by PET.

CN L-Proline, N2-[4-(fluoro-18F)benzoyl]-L-arginyl-L-arginyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

CH₂) 3 0 NH₂ 18F

REFERENCE COUNT: 51 THERE ARE 51 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 6 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2001:338068 HCAPLUS

DOCUMENT NUMBER: 134:348237

TITLE: Treatment of female sexual arousal dysfunction INVENTOR(S): Maw, Graham Nigel; Wayman, Christopher Peter PATENT ASSIGNEE(S): Pfizer Limited, UK; Pfizer Inc. SOURCE: Eur. Pat. Appl., 135 pp. CODEN: EPXXDW DOCUMENT TYPE: Patent LANGUAGE: English FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE _ _ _ _ _____ -----EP 1097707 20010509 EP 2000-309719 A1 20001103 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO ZA 2000006374 20020506 Α ZA 2000-6374 20001106 ZA 2000006375 20020506 ZA 2000-6375 Α 20001106 ZA 2000006376 Α 20020506 ZA 2000-6376 20001106 ZA 2000006378 A 20020506 ZA 2000-6378 20001106 NO 2000005618 Α 20010509 NO 2000-5618 20001107 NO 2000005661 Α 20010509 NO 2000-5661 20001107 A NO 2000005662 20010509 NO 2000-5662 20001107 A A CN 1320426 20011107 CN 2000-137665 20001107 CN 1322526 20011121 CN 2000-137671 A A A A 20001107 CN 1328824 20020102 CN 2000-137670 20001107 NZ 508006 20020628 NZ 2000-508006 20001107 NZ 508007 20020628 NZ 2000-508007 20001107 NZ 508011 20020628 NZ 2000-508011 20001107 20020628 NZ 2000-508012 20030408 BR 2000-5266 NZ 508012 Α 20020628 NZ 2000-508012 20001107 A 20030408 BR 2000 321 A2 20010731 JP 2000-339905 00010807 JP 2000-339853 BR 2000005266 20001107 JP 2001206855 20001108 JP 2001213802 20001108 JP 2001247478 A2 20010911 JP 2000-339949 20001108 JP 2001247479 A2 20010911 JP 2000-339957 20001108 A 20030408 A 20030415 BR 2000005276 BR 2000-5276 20001108 BR 2000005299 BR 2000-5299 20001108 B1 20040511 US 6734186 US 2000-708392 20001108 PRIORITY APPLN. INFO.: GB 1999-26437 A 19991108 GB 2000-4021 A 20000218 GB 2000-13001 A 20000526 A 20000705 GB 2000-16563 GB 2000-17141 A 20000712 US 2000-175161P P 20000107 US 2000-192962P P 20000329 US 2000-217479P P 20000711 US 2000-221014P P 20000727 US 2000-221093P P 20000727 A method of treating a female suffering from female sexual dysfunction AB (FSD), in particular female sexual arousal dysfunction (FSAD), is described. The method comprises delivering to the female an agent that is capable of potentiating cAMP in the sexual genitalia; wherein the agent is in an amount to cause potentiation of cAMP in the sexual genitalia of the female. The agent may be admixed with a pharmaceutically acceptable carrier, diluent or excipient. 67482-93-3 RL: ARU (Analytical role, unclassified); BPR (Biological process); BSU (Biological study, unclassified); ANST (Analytical study); BIOL

IT

(Biological study); PROC (Process)

(treatment of female sexual arousal dysfunction)

RN 67482-93-3 HCAPLUS

L-Proline, N-(2-aminobenzoyl)glycyl-4-nitro-L-phenylalanyl- (9CI) CNINDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT:

15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 7 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2000:790293 HCAPLUS

DOCUMENT NUMBER:

133:344615

TITLE:

ACE-2 inhibiting compounds, their preparation,

pharmaceutical compositions containing them, and their

therapeutic use

INVENTOR(S):

Acton, Susan L.; Ocain, Timothy D.; Gould, Alexandra

E.; Dales, Natalie A.; Guan, Bing; Brown, James A.

PATENT ASSIGNEE(S):

Millennium Pharmaceuticals, Inc., USA PCT Int. Appl., 127 pp.

SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

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											, MC,						
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WO 2000-US11550 W 20000428

OTHER SOURCE(S):

MARPAT 133:344615

AB ACE-2 inhibiting compds. are disclosed. Methods of using the compds. and pharmaceutical compns. containing the compds. are also claimed. The compds. of the invention are useful for treating e.g. blood pressure-related diseases. Compound preparation is described.

IT 305336-84-9

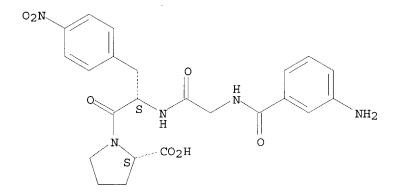
RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(ACE-2 inhibitor preparation, pharmaceutical compns., and therapeutic use)

RN 305336-84-9 HCAPLUS

CN L-Proline, N-(3-aminobenzoyl)glycyl-4-nitro-L-phenylalanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L18 ANSWER 8 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1999:124017 HCAPLUS

DOCUMENT NUMBER:

130:322240

TITLE:

N-domain selectivity of angiotensin I-converting enzyme as assessed by structure-function studies of its highly selective substrate, N-acetyl-seryl-

aspartyl-lysyl-proline

AUTHOR(S):

Michaud, Annie; Chauvet, Marie-Therese; Corvol, Pierre

CORPORATE SOURCE:

Institut National de la Sante et de la Recherche Medicale, Unite 36, College de France, Paris, 75005,

F٣.

SOURCE:

Biochemical Pharmacology (1999), 57(6), 611-618

CODEN: BCPCA6; ISSN: 0006-2952

PUBLISHER:

Elsevier Science Inc.

DOCUMENT TYPE:

Journal

LANGUAGE:

English

The physiol. functions of angiotensin I-converting enzyme (ACE) are not limited to its cardiovascular role. ACE constantly degrades N-acetyl-seryl-aspartyl-lysyl-proline (AcSDKP), a natural circulating regulator of the hematopoietic stem cell proliferation, and thereby may be involved in hematopoietic stem cell regulation. AcSDKP is hydrolyzed 50-fold faster by the N-domain active site compared to the C-domain active site. The aim of the present study was to investigate which amino acid residues from AcSDKP are required to ensure N-domain specificity. Several peptides were designed by progressively increasing the length of the peptidic chain from a tripeptide to a pentapeptide. Kinetic studies of the wild-type ACE and of the two ACE mutants containing a single active domain (N- or C-domain) were performed using Bz (benzoyl) Asp-Lys-Pro, benzoyl-glycyl (Bz-Gly)-Asp-Lys-Pro, and Bz-Gly-Ser-Asp-Lys-Pro (with its intermediate product Bz-Gly-Ser-Asp) as substrates. The unexpected

importance of an aspartic acid in the P1 position was discovered, as well as the interaction of the P2 and P3 positions in the substrate to increase or decrease N-domain specificity. Substrates longer than five residues may involve interdependence between subsites. Finally, the discovery of highly specific and novel N-domain substrates cannot be predicted from single subsite mapping, but may require other approaches such as combinatorial peptide libraries.

TΤ 223779-90-6

> RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(N-domain selectivity of angiotensin I-converting enzyme as assessed by structure-function studies of its highly selective substrate,

N-acetyl-seryl-aspartyl-lysyl-proline)

RN223779-90-6 HCAPLUS

CN L-Proline, N-benzoyl-L-α-aspartyl-L-lysyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT:

30 THERE ARE 30 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L18 ANSWER 9 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1990:16254 HCAPLUS 112:16254

DOCUMENT NUMBER: TITLE:

Targeted delivery of drugs and diagnostic agents using

carriers which promote endothelial and epithelial

uptake and lesional localization

INVENTOR (S):

Ranney, David F.

PATENT ASSIGNEE(S):

USA

SOURCE:

PCT Int. Appl., 99 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PAT	CENT :	NO.			KIN)	DATE			APPL	ICAT	ION 1	NO.		D.	ATE	
						-		-							_		
WO	8807	365			A2		1988	1006		WO 1	988-	US10:	96		1:	9880	330
WO	8807	365			A3		1988	1117									
	W:	AΤ,	AU,	BB,	BG,	BR,	CH,	DE,	DK,	FΙ,	GB,	HU,	JP,	ΚP,	KR,	LK,	LU,
		MC,	MG,	MW,	NL,	NO,	RO,	SD,	SE,	SU,	US						
	RW:	AT,	BE,	ВJ,	CF,	CG,	CH,	CM,	DE,	FR,	GA,	GB,	IT,	LU,	ML,	MR,	NL,
		SE,	SN,	TD,	TG												
US	4925	678			Α		1990	0515		US 1	987-	33432	2		1	9870	401
ΑU	8816	275			A1		1988	1102		AU 1	988-	1627	5		1:	9880	330
ΑU	6074	94			B2		1991	0307									

	352295			A1	19900131	EP 1988-90370	19880330
EP	352295			В1	19930616		
EP	352295			B2	19960410		
	R: AT	, BE,	CH,	DE,	FR, GB, IT,	LI, LU, NL, SE	
JP	0450440	4		T2	19920806	JP 1988-50357	9 19880330
JP	2886171			B2	19990426		
AT	90554			E	19930715	AT 1988-90370	19880330
CA	1324080			A1	19931109	CA 1988-56511:	9 19880426
US	5108759			Α	19920428	US 1989-44812:	1 19891208
PRIORITY	Y APPLN.	INFO	.:			US 1987-33432	19870401
						EP 1988-90370:	19880330
						WO 1988-US109	19880330

AB Targeted delivery systems comprise drugs or diagnostic agents and carriers which recognize determinants present on normal or diseased endothelium. This induces the following effects in vivo: (1) rapid endothelial envelopment of the carrier; (2) sequestration of the carrier and protection of the entrapped agent from early blood clearance; (3) acceleration of the carrier's transport across the vascular endothelium into the interstitium; and (4) improvement of drug delivery across the endothelium, so that a lower total drug dose is required. Aqueous cisplatin (I) was mixed with heparin at a 1:1.1 weight ratio and ultrasonicated to form a heparin-coated I microemulsion with particle sizes of 0.2-1.5 μm, which was stable for >1 h at 22°. Mice receiving this emulsion i.v. showed moderate to intense concentration of I in the lung interstitia, alveolar pneumocytes, respiratory epithelia, and lymph nodes, but low I concns. in the liver, whereas mice receiving standard aqueous I showed intense I concentration in the liver and almost no I in the lungs. Thus high concns. of I (which are usually toxic to endothelium) can be successfully reformulated as a heparin microemulsion, and the heparin component can induce endothelial binding and transcellular uptake of the complexes in a fashion that protects the endothelium from the toxic effects of the drug.

IT 69677-91-4

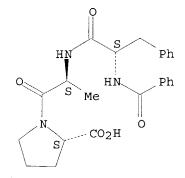
RL: BIOL (Biological study)

(as multivalent binding agent, for targeted drug delivery to epithelium)

RN 69677-91-4 HCAPLUS

CN L-Proline, N-benzoyl-L-phenylalanyl-L-alanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L18 ANSWER 10 OF 10 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1989:633680 HCAPLUS

DOCUMENT NUMBER: 111:233680

TITLE: Preparation of tripeptides containing L-proline

derivatives as nootropics and pharmaceutical

compositions containing them

INVENTOR(S): Fiez-Vandal, Pierre Yves

PATENT ASSIGNEE(S): Inorgan S. A., Switz. SOURCE: Eur. Pat. Appl., 18 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA:	TENT N	0.			KINI)	DATE		AP	PLICAT	ON NOI			DATE
						-							-	
EP	31621	8			A1		1989	0517	EP	1988-	402761			19881103
EP	31621	8			В1		1993	0915						
	R:	ΑT,	BE,	CH,	DE,	ES,	, FR,	GB,	GR, I	r, LI,	LU, N	L, SE		
FR	26225	81			A 1		1989	0505	FR	1987-	15228			19871103
FR	26225	81			B1		1990	0216						
JP	01157	998			A2		1989	0621	JP	1988-	276343			19881102
FI	88050	83			Α		1989	0504	FI	1988-	5083			19881103
US	52121	58			A		1993	0518	US	1988-	266680			19881103
AT	94560				\mathbf{E}		1993	1015	AT	1988-	402761			19881103
ES	20617	10			Т3		1994	1216	ES	1988-	402761			19881103
KR	12179	3	·		B1		1997	1127	KR	1988-	14433			19881103
CA	13402	27			A1		1998	1215	CA	1988-	582169			19881103
PRIORITY	APPL	N. 3	INFO	. :					FR	1987-	15228		Α	19871103
									EP	1988-	402761		A	19881103

OTHER SOURCE(S): CASREACT 111:233680; MARPAT 111:233680

GI

The title compds. [I; R1 = Q; X = CO, YCO, OYCO; Y = alkylene, alkenylene; Z = H, ≥1 CF3, alkyl, alkylenedioxy; R2 = NH2, OH, or a functional derivative thereof; A1, A2 = amino acid residue; B1, B2 = H, Me] and their pharmaceutically acceptable salts, useful as nootropics for treatment of senile dementia, Alzheimer's disease, Parkinson's disease, schizophrenia, and depression, are prepared via reaction of activated R1-A1-OH with proline derivs. II (R3 = H-A2), obtained by reaction of II (R3 = H) with activated H-A2-OH. N-Cinnamoylglycine (preparation given) was condensed with II.CF3CO2H (R2 = NH2, B1 = B2 = H, R3 = H-Phe) (preparation given) in DMF containing dicyclohexylcarbodiimide and N-methylmorpholine to give I (R1 = cinnamoyl, R2 = NH2, B1 = B2 = H, A1 = Gly, A2 = Phe) (III). III, administered i.p. or p.o. at 1 mg/kg, was effective in antagonizing scopolamine-induced amnesia in mice.

IT 123910-50-9P 123910-52-1P 123910-53-2P 123910-54-3P 123910-55-4P 123910-57-6P 123910-58-7P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of, as nootropic)

RN 123910-50-9 HCAPLUS

CN L-Prolinamide, N-[3-(4-fluorophenyl)-1-oxo-2-propenyl]glycyl-L-phenylalanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

RN 123910-52-1 HCAPLUS

CN L-Prolinamide, N-[1-oxo-3-(3,4,5-trimethoxyphenyl)-2-propenyl]glycyl-L-phenylalanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry unknown.

RN 123910-53-2 HCAPLUS

CN L-Prolinamide, N-(1-oxo-3-phenyl-2-propenyl)glycyl-L-leucyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Double bond geometry unknown.

RN 123910-54-3 HCAPLUS

CN L-Prolinamide, N-benzoylglycyl-L-phenylalanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 123910-55-4 HCAPLUS

CN L-Prolinamide, N-(phenylacetyl)glycyl-L-phenylalanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 123910-57-6 HCAPLUS

CN L-Prolinamide, N-(1-oxo-3-phenyl-2-propenyl)glycyl-L-phenylalanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry unknown.

RN 123910-58-7 HCAPLUS

CN L-Prolinamide, N-[3-(1,3-benzodioxol-5-yl)-1-oxo-2-propenyl]glycyl-L-phenylalanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

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                STR
L7
         248833 SEA FILE=REGISTRY SSS FUL L3
L11
                STR
L12
            301 SEA FILE=REGISTRY SUB=L7 SSS FUL L11
L17
            177 SEA FILE=HCAPLUS ABB=ON
                                         PLU=ON L12
             10 SEA FILE=HCAPLUS ABB=ON PLU=ON L17 AND (?ALZHE? OR ?NEURO?
L18
                OR ?COGNIT? OR ?NEURAL? OR ?ISCHE? OR ?LESION? OR ?DEMIN? OR
                ?SENIL?)
         112997 SEA FILE=HCAPLUS ABB=ON PLU=ON "NERVOUS SYSTEM, DISEASE"/CV
L19
                OR ("BRAIN, DISEASE"/CV OR "MENTAL DISORDER"/CV OR "ALZHEIMER'S
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                OR "ALZHEIMER DEMENTIA"/CV OR "ALZHEIMER DISEASE MENTAL
                DISORDER"/CV OR "ALZHEIMER'S DEMENTIA"/CV OR "ALZHEIMER'S
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                 OR "ALZHEIMER-TYPE SENILE DEMENTIA"/CV OR "NONFAMILIAL
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                DISEASE, FAMILIAL, TYPE 3"/CV OR "MENTAL DISORDER (L) ALZHEIMER
                'S DISEASE, TYPE I"/CV OR "MENTAL DISORDER (L) ALZHEIMER'S
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                PRECURSOR PROTEINS"/CV OR AMYLOIDOSIS/CV OR "ANTI-ALZHEIMER'S
                AGENTS"/CV OR "COGNITION ENHANCERS"/CV OR "NEUROFIBRILLARY
                TANGLE"/CV OR PRESENILINS/CV OR "TAU FACTOR"/CV OR B-SECRE
                TASE/CV OR Γ-SECRETASE/CV OR "CDK5 KINASE"/CV OR
                "GLYCOGEN SYNTHASE KINASE 3"/CV OR "HUMAN B-AMYLOID
                PEPTIDE-(1-40)"/CV OR "HUMAN B-AMYLOID PEPTIDE-(1-42)"/CV
                OR TACRINE/CV)
L20
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L21
          76835 SEA FILE=HCAPLUS ABB=ON PLU=ON
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                OR ISCHEMIA/CV OR "BLOOD VESSEL, DISEASE (L) ISCHEMIA"/CV OR
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                V OR CIRCULATION/CV OR "ISCHEMIC PRECONDITIONING"/CV OR
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             11 SEA FILE=HCAPLUS ABB=ON
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                                                 "NERVOUS SYSTEM, DISEASE"/CV
                                         PLU=ON
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                                                 L23 AND L17
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              5 SEA FILE=HCAPLUS ABB=ON
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              3 SEA FILE=HCAPLUS ABB=ON
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             12 SEA FILE=HCAPLUS ABB=ON
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L29
                                                 L26 OR L28
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=> d ibib abs hitstr 129 1-12

L29 ANSWER 1 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2002:354079 HCAPLUS

DOCUMENT NUMBER:

INVENTOR(S):

136:355487

TITLE:

Preparation of meta-benzamidine derivatives of amino acids or dipeptides as serine protease inhibitors Liebeschuetz, John Walter; Wylie, William Alexander; Waszkowycz, Bohdan; Murray, Christopher William; Rimmer, Andrew David; Welsh, Pauline Mary; Jones,

Stuart Donald; Roscoe, Jonathan Michael Ernest; Young,

Stephen Clinton; Morgan, Phillip John

PATENT ASSIGNEE(S):

Tularik Ltd., UK

SOURCE:

U.S. Pat. Appl. Publ., 35 pp., Cont.-in-part of U.S.

Ser. No. 485,678. CODEN: USXXCO

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

	TENT				KIN		DATE				ICAT					ATE	
	2002				A1		2002									0011	119
US	6740	682			B2		2004	0525									
WO	9911	658			A 1		1999	0311		WO 1	998-	GB26	05		1	9980	828
	W:	AL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,	DE,
		DK,	EE,	ES,	FI,	GB,	GE,	GH,	GM,	HR,	HU,	ID,	ΙL,	IS,	JP,	KΕ,	KG,
		ΚP,	KR,	KΖ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,	MN,	MW,	MX,
		NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	TJ,	TM,	TR,	TT,
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	RW:	GH,	GM,	KΕ,	LS,	MW,	SD,	SZ,	UG,	ZW,	ΑT,	BE,	CH,	CY,	DE,	DK,	ES,
		,	,				IT,		-			SE,	BF,	ВJ,	CF,	CG,	CI,
		CM,	GΑ,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	TG						
WO	2000	0770	27		A2		2000	1221	•	WO 2	000-0	GB22	91		2	0000	613
WO	2000	0770	27		A3		2001	0525									
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		CU,	CZ,	DE,	DK,	DM,	DZ,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	HU,
			,	,	,		KΕ,				,						
		,	,	,	•		MN,								•		
			,	,	•	•	ТJ,			•		,	UG,	US,	UZ,	VN,	YU,
							KG,										
	RW:						MΖ,										
		,	,	•	•	•	GB,								SE,	BF,	ВJ,
		CF,					GN,							TG			
	2003		03		A1		2003				003-:				_	0030	
	2004				A1		2004	0722			004-					0040	
PRIORIT	Y APP	LN.	INFO	. :							997-		2		_	9970	
											998-				_	9980:	
											998-0					9980	
											999-					9990	
											999-					9990	
											000-4					0000:	
											000-0					0000	
											999-					9990	
											999-					9991	
									,	⊥ كاف	999-2	4955	3	1	A 1	9991:	214

WO 2001-GB2566 W 20010612 US 2001-988082 A1 20011119

OTHER SOURCE(S):

MARPAT 136:355487

Т

 $X-X-Y-L-Lp(D)_n$ $R^{1}R^{2}N$ NR^{1}

Title compds. I [R1, R2 = H, OH, alkoxy, alkyl, aminoalkyl, hydroxyalkyl, AΒ alkoxyalkyl, alkoxycarbonyl, acyloxymethoxycarbonyl or alkylamino optionally substituted by hydroxy, alkylamino, alkoxy, oxo, aryl, cycloalkyl; R3 = R1, R2, amino, halo, cyano, nitro, thiol, alkylthio, alkylsulfonyl, alkylsulfenyl, alkylsulfonamido, alkylaminosulfonyl, haloalkoxy, haloalkyl; X = C, N, O, S, CO, CR1, C(R1)2, NR1 with at least one X being C, CO, CR1 or C(R1)2, with the proviso that if the benzamidine group is unsubstituted and the X-X group is -CH2C(R1)2-, then R1 = H or attached to the alkylene carbon atom by a heteroatom; L = organic linker containing 1-5 backbone atoms selected from C, N, O and S, or a branched alkyl or cyclic group; Y = N, CR1; YL = cyclic group; Cy = (un)saturated, (poly)cyclic, (hetero)cyclic group optionally substituted by groups R3 or Ph optionally substituted by R3; Lp = lipophilic alkyl, heterocyclic, alkenyl, alkaryl, (poly) cycloalkyl, cycloalkenyl, aryl, aralkyl, haloalkyl, or a combination of two or more such groups optionally substituted by oxa, oxo, aza, thio, halo, amino, hydroxy or by R3; D = H bond donor group; n = 0-2], or corresponding compds. in which the (un) substituted amidino group R1R2NC(:NR1) is replaced with an (un) substituted aminomethyl group, or their physiol. tolerable salts were prepared as serine protease inhibitors useful as antithrombotic agents. 3-Amidino- and 3-(aminomethyl)benzoyl-D-phenylqlycine 4aminomethylcyclohexylmethylamide are among 190 compds. synthesized.

IT 221233-25-6P 221234-79-3P 221277-36-7P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of meta-benzamidine derivs. of amino acids or dipeptides as serine protease inhibitors)

RN 221233-25-6 HCAPLUS

D-Proline, (2R)-N-[3-(aminoiminomethyl)benzoyl]-2-phenylglycyl-3-(2-naphthalenyl)-D-alanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

CN

RN 221234-79-3 HCAPLUS

CN D-Prolinamide, (2R)-N-[3-(aminoiminomethyl)benzoyl]-2-phenylglycyl-D-phenylalanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 221277-36-7 HCAPLUS

CN D-Proline, (2R)-N-[3-(aminoiminomethyl)benzoyl]-2-(naphthalenyl)glycyl-3-(2-naphthalenyl)-D-alanyl-(9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

L29 ANSWER 2 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1999:184269 HCAPLUS

DOCUMENT NUMBER:

130:237884

TITLE:

Preparation of meta-benzamidine derivatives of amino acids or dipeptides as serine protease inhibitors

Liebeschuetz, John Walter; Wylie, William Alexander; Waszkowycz, Bohdan; Murray, Christopher William; Rimmer, Andrew David; Welsh, Pauline Mary; Jones,

Stuart Donald; Roscoe, Jonathan Michael Ernest; Young,

Stephen Clinton; Morgan, Phillip John

PATENT ASSIGNEE(S):

SOURCE:

Proteus Molecular Design Ltd., UK

PCT Int. Appl., 110 pp.

DOCUMENTS TO THE

DOCUMENT TYPE:

LANGUAGE:

INVENTOR(S):

CODEN: PIXXD2 Patent

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA	TENT :	NO.			KIN	D	DATE		P	APPI	LICAT	ION 1	10.		D	ATE	
WO	9911	 658			A1	-	1999	0311	M	10 1	1998-0	3B260)5		1	9980	328
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		DK,	EE,	ES,	FΙ,	GB,	GE,	GH,	GM,	HR,	, HU,	ID,	IL,	IS,	JP,	ΚE,	KG,
		ΚP,	KR,	KΖ,	LC,	LK,	LR,	LS,	LT,	LU,	, LV,	MD,	MG,	MK,	MN,	MW,	MX,
		NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	, SI,	SK,	SL,	ΤJ,	TM,	TR,	TT,
		UA,	UG,	US,	UZ,	VN,	YU,	ZW,	AM,	AZ,	, BY,	KG,	ΚZ,	MD,	RU,	ТJ,	TM
	RW:	GH,	GM,	KE,	LS,	MW,	SD,	SZ,	UG,	ZW,	, AT,	ΒE,	CH,	CY,	DE,	DK,	ES,
		FI,	FR,	GB,	GR,	ΙE,	ΙT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,	CI,
		CM,	GA,	GN,	GW,	ML,	MR,	ΝE,	SN,	TD,	, TG						
AU	9888	757			A1		1999	0322	A	AU 1	1998-8	38757	7		1	99808	328
EP	1009	758			A1		2000	0621	E	EP 1	1998-9	94043	30		1	99808	328
	R:	DE,	FR,	GB,	IT												
US	2002	0555	22		Al		2002	0509	τ	JS 2	2001-9	98808	32		2	0011	L19
US	6740	682			В2		2004	0525									
US	2003	2164	03		A 1		2003	1120	Ţ	JS 2	2003-2	29624	15		2	0030	514
US	2004	1430	18		Al		2004	0722	τ	JS 2	2004-5	75256	58		2	040	108
PRIORIT	Y APP	LN.	INFO	. :					G	B 1	1997-3	18392	2	Z	A 1	99708	329

GB	1998-3173	Α	19980213
WO	1998-GB2605	W	19980828
GB	1999-13823	Α	19990614
US	1999~142064P	P	19990702
US	2000-485678	A2	20000225
WO	2000-GB2291	A2	20000613
WO	2001-GB2566	W	20010612
US	2001-988082	AΊ	20011119

OTHER SOURCE(S):

MARPAT 130:237884

Ι

$$X-X-Y-L-Lp(D)_n$$
 $R^{1}R^{2}N$
 NR^{1}

$$CO-N$$
 $CO-OCH_2CH_2$
 N
 CH_3
 H_2N
 NH

AB Title compds. I [R1, R2 = H, OH, alkoxy, alkyl, aminoalkyl, hydroxyalkyl, alkoxyalkyl, alkoxycarbonyl, acyloxymethoxycarbonyl or alkylamino optionally substituted by hydroxy, alkylamino, alkoxy, oxo, aryl, cycloalkyl; R3 = R1, R2, amino, halo, cyano, nitro, thiol, alkylthio, alkylsulfonyl, alkylsulfenyl, alkylsulfonamido, alkylaminosulfonyl, haloalkoxy, haloalkyl; X = C, N, O, S, CO, CR1, C(R1)2, NR1 with at least one X being C, CO, CR1 or C(R1)2, with the proviso that if the benzamidine group is unsubstituted and the X-X group is -CH2C(R1)2-, then R1 = H or attached to the alkylene carbon atom by a heteroatom; L = organic linker containing 1-5 backbone atoms selected from C, N, O and S, or a branched alkyl or cyclic group; Y = N, CR1; YL = cyclic group; Cy = (un)saturated, (poly)cyclic, (hetero)cyclic group optionally substituted by groups R3 or Ph optionally substituted by R3; Lp = lipophilic alkyl, heterocyclic, alkenyl, alkaryl, (poly)cycloalkyl, cycloalkenyl, aryl, aralkyl, haloalkyl, or a combination of two or more such groups optionally substituted by oxa, oxo, aza, thio, halo, amino, hydroxy or by R3; D = H bond donor group; n = 0-2] and their physiol. tolerable salts were prepared as serine protease inhibitors useful as antithrombotic agents. Synthesis methodol. for preparing some I was provided, and common starting materials were Fmoc- or Boc-(D)-phenylglycine and m-amidinobenzoic acid. Descriptions of enzyme assays were given, but no enzyme inhibition data was provided for I. To measure the antithrombotic activity, a partial thromboplastin time test assay was done, and for example, m-amidinobenzoyl-D-phenylglycine ester II (preparation not given, but 1H NMR characterization data provided), at $1.9~\mu M$ concentration, doubled the clotting

II

time.

IT 221233-25-6P 221234-79-3P 221277-36-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of meta-benzamidine derivs. of amino acids or dipeptides as serine protease inhibitors)

RN 221233-25-6 HCAPLUS

CN D-Proline, (2R)-N-[3-(aminoiminomethyl)benzoyl]-2-phenylglycyl-3-(2-naphthalenyl)-D-alanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 221234-79-3 HCAPLUS

CN D-Prolinamide, (2R)-N-[3-(aminoiminomethyl)benzoyl]-2-phenylglycyl-D-phenylalanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 221277-36-7 HCAPLUS

CN D-Proline, (2R)-N-[3-(aminoiminomethyl)benzoyl]-2-(naphthalenyl)glycyl-3-(2-naphthalenyl)-D-alanyl- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A

REFERENCE COUNT:

12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 3 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1999:184268 HCAPLUS

DOCUMENT NUMBER:

130:223587

TITLE:

1-amino-7-isoquinoline derivatives as serine protease

inhibitors

INVENTOR(S):

Liebeschuetz, John Walter; Wylie, William Alexander; Waszkowycz, Bohdan; Murray, Christopher William; Rimmer, Andrew David; Welsh, Pauline Mary; Jones, Stuart Donald; Roscoe, Jonathan Michael Ernest; Young, Stephen Clinton; Morgan, Phillip John; Camp, Nicholas

Paul; Crew, Andrew Philip Austin Proteus Molecular Design Ltd., UK

PATENT ASSIGNEE(S):

PCT Int. Appl., 89 pp.

SOURCE: CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PA	rent	NO.			KIN	D	DATE			APPL	ICAT	ION	NO.		D	ATE	
WO.	9911	 657			7.1	_	1000	 ^211		 WO 1	000	 apae			1	0000	000
WO	JJII	057			ΑT		エフフフ	0211		WO I	フラロー	JD 2 0	UU		Τ;	9980	828
	W :	ΑL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CU,	CZ,	DE,
		DK,	EE,	ES,	FΙ,	GB,	GE,	GH,	GM,	HR,	HU,	ID,	ΙL,	IS,	JP,	KE,	KG,
		ΚP,	KR,	KΖ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MD,	MG,	MK,	MN,	MW,	MX,
		NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,	SL,	ТJ,	TM,	TR,	TT,
		UA,	UG,	US,	UZ,	VN,	YU,	ZW,	AM,	AZ,	BY,	KG,	KΖ,	MD,	RU,	ТJ,	TM
	RW:	GH,	GM,	KΕ,	LS,	MW,	SD,	SZ,	UG,	ZW,	ΑT,	BE,	CH,	CY,	DE,	DK,	ES,
		FΙ,	FR,	GB,	GR,	ΙE,	ΙT,	LU,	MC,	NL,	PT,	SE,	BF,	ВJ,	CF,	CG,	CI,
		CM,	GA,	GN,	GW,	ML,	MR,	NE,	SN,	TD,	TG						
ΑU	9888	753			A1		1999	0322		AU 1:	998-	8875	3		19	99808	328
EP	1012	166			A1		2000	0628		EP 1	998-	94042	25		19	9808	328
ΕP	1012	166			B1		2003	1029									
	R:	CH,	DE,	ES,	FR,	GB,	IT,	LI,	NL								

770 606044						
US 6262069	B1	20010717	US	2000-485677		20000225
US 2002040144	Al	20020404	US	2001-865418		20010529
US 6420438	B1	20020716	US	2000-865418		20010529
US 2003216403	A1	20031120	US	2003-296245		20030514
PRIORITY APPLN. INFO.:			GB	1997-18392	Α	19970829
			GB	1998-3173	A	19980213
			WO	1998-GB2600	W	19980828
			US	2000-485677	A1	20000225
			WO	2001-GB2566	W	20010612
OMITED GOIDGE (a)	****	400 000				

OTHER SOURCE(S):

MARPAT 130:223587

GΙ

$$R^{1}$$
 R^{2}
 N
 NH_{2}
 I

AΒ Aminoisoquinoline amino acid derivs. I [R1 = H, halo, cyano, nitro, hydroxy, amino, alkoxy, alkyl, aminoalkyl, hydroxyalkyl, thiol, alkylthio, aminosulfonyl, alkoxyalkyl, alkoxycarbonyl, acyloxymethoxycarbonyl or alkylamino (optionally substituted); R2 = H, halo, Me, amino, hydroxy, or oxo; and R is X-X-Y(R7)-L-Lp(D)n, where each X independently is a C, N, O or S atom or a CO, CR1, CR12 or NR1 group; Y is a nitrogen atom or a CR1 group or Y and L taken together form a cyclic group; R7 is a lipophilic group selected from alkyl, alkenyl, mono- or bi-cycloalkyl, aryl, heteroaryl, mono- or bicycloalkylalkyl, mono- or bicycloalkylalkenyl, aralkyl, heteroaryl-alkyl, arylalkenyl, heteroarylalkenyl, all optionally substituted by a group R1; L is an organic linker group containing 1 to 5 backbone atoms selected from C, N, O and S, or a branched alkyl or cyclic group; Lp is a lipophilic organic group selected from alkyl, heterocyclic, alkenyl, alkaryl, cycloalkyl, polycycloalkyl, cycloalkenyl, aryl, aralkyl or haloalkyl group or a combination of two or more such groups optionally substituted by one or more of oxa, thia, aza or R1 groups; D is a hydrogen bond donor group; and n is 0, 1, or 2] or their 3,4-dihydro derivs. were prepared as serine protease inhibitors. Thus, 1-aminoisoquinolin-7-oyl-Dphenylglycine-4-methoxybenzylamide was prepared by amidation of Boc-D-phenylglycine with 4-methylbenzylamine, followed by deprotection and coupling with 1-aminoisoquinoline-7-carboxylic acid trifluoroacetate.

IT 221049-80-5P 221050-78-8P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of aminoisoquinoline peptidyl derivs. as serine protease inhibitors)

RN 221049-80-5 HCAPLUS

CN D-Proline, (2R)-N-[(1-amino-7-isoquinolinyl)carbonyl]-2-phenylglycyl-3-(2-naphthalenyl)-D-alanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN221050-78-8 HCAPLUS

L-Proline, (2R)-N-[(1-amino-7-isoquinolinyl)carbonyl]-2-phenylglycyl-3-(2-CN naphthalenyl)-D-alanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT:

12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L29 ANSWER 4 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1991:581373 HCAPLUS

DOCUMENT NUMBER:

115:181373

TITLE:

Bispecific monoclonal antibody to cancer cell and to enzyme with prodrug-activating characteristics, and

preparation of peptidated anticancer prodrugs

INVENTOR(S):

Iwasa, Susumu; Okamoto, Kayoko

PATENT ASSIGNEE(S):

Takeda Chemical Industries, Ltd., Japan

SOURCE:

PCT Int. Appl., 52 pp.

DOCUMENT TYPE:

Patent

CODEN: PIXXD2

LANGUAGE:

English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
			~	~
WO 9109134	A1	19910627	WO 1990-JP1631	19901214

W: CA, JP, US

RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LU, NL, SE

EP 505566 Al 19920930 EP 1991-900329 19901214

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE JP 05506563 T2 19930930 JP 1991-501001 19901214

PRIORITY APPLN. INFO.: 19930930 JP 1991-501001 19901214

PRIORITY APPLN. INFO.: JP 1989-326545 19891215

 JP 1990-97323
 19900411

 JP 1990-301608
 19901106

 WO 1990-JP1631
 19901214

AB A hybrid bispecific monoclonal antibody (MAb) is provided having specificities against a human cancer cell and a prodrug-activating enzyme

. Also provided is a polydoma producing the MAb, an antihuman cancer protein complex (the MAb-prodrug-activating enzyme complex), and methods for using the MAb in combination with an anticancer prodrug for cancer therapy. Preparation of a variety of peptidated anticancer agent prodrugs is described, as is their activity before and after proteolytic cleavage. A hybridoma producing an antihuman transferrin receptor MAb was fused with a hybridoma producing an antiurokinase MAb, and the bispecific MAb produced was purified. A complex of the bispecific MAb and urokinase was incubated with human epidermoid carcinoma cell line A431; this was followed by incubation with the prepared prodrug Boc-Gly-Gly-Arg-Val-adriamycin (Boc = t-butyloxycarbonyl). The prodrug was activated by the bispecific antibody-urokinase complex and showed strong cytotoxicity against the A431

IT 73167-84-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction of, in peptidated antitumor prodrug preparation)

RN 73167-84-7 HCAPLUS

target cells.

CN L-Proline, 1-[N-(N-benzoylglycyl)-L-alanyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L29 ANSWER 5 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1990:74402 HCAPLUS

DOCUMENT NUMBER:

112:74402

TITLE:

Hydrolysis of a synthetic angiotensin-converting

enzyme substrate in dog lungs

AUTHOR(S):

Linehan, John H.; Bronikowski, Thomas A.; Rickaby,

David A.; Dawson, Christopher A.

CORPORATE SOURCE:

Dep. Biomed. Eng., Marquette Univ., Milwaukee, WI,

53233, USA

SOURCE:

American Journal of Physiology (1989), 257(6, Pt. 2),

H2006-H2016

CODEN: AJPHAP; ISSN: 0002-9513

DOCUMENT TYPE:

Journal

LANGUAGE:

English

AB The saturable kinetics of the hydrolysis of a synthetic substrate,

benzoyl-Phe-Ala-Pro (BPAP), for angiotensin-converting enzyme (ACE), by the pulmonary endothelium of the dog were evaluated with a multiple indicator dilution method. In the expts., isolated dog lung lobes were perfused with a salt solution containing 5% bovine serum albumin. Boluses containing [3H]BPAP, and various amts. of unlabeled BPAP were injected into the lobar artery, and timed samples of venous effluent were collected. The samples were analyzed to determine the fractional hydrolysis of the injected BPAP. BPAP hydrolysis on passage through the lungs exhibited the saturable behavior and the relative insensitivity to changing flow rate previously described. Since it was described previously that BPAP behaves as if it exists in 2 forms, 1 of which is virtually unhydrolyzable on a single pass through the lungs, a model was formulated to include the influence of the unhydrolyzable form, as well as the saturable hydrolysis of the hydrolyzable form, on the fractional hydrolysis of the injected BPAP. This model provides a new method for estimating the kinetic parameters of BPAP hydrolysis by pulmonary endothelial ACE, and it explains the observation that the fractional BPAP hydrolysis does not vary with flow rate and transit time to the extent predicted by previous models.

IT 69677-91-4

RL: RCT (Reactant); RACT (Reactant or reagent)

(hydrolysis of, by angiotensin-converting enzyme of lung endothelium, kinetics of, model for)

RN 69677-91-4 HCAPLUS

CN L-Proline, N-benzoyl-L-phenylalanyl-L-alanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L29 ANSWER 6 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1989:625889 HCAPLUS

DOCUMENT NUMBER: 111:225889

TITLE: Metabolic and pharmacokinetic activity of the isolated

sheep bronchial circulation

AUTHOR(S): Grantham, C. J.; Jackowski, J. T.; Wanner, A.; Ryan,

U.S.

CORPORATE SOURCE: Mt. Sinai Med. Cent., Univ. Miami, Miami, FL, 33101,

USA

SOURCE: Journal of Applied Physiology (1989), 67(3), 1041-7

CODEN: JAPHEV; ISSN: 8750-7587

DOCUMENT TYPE: Journal LANGUAGE: English

Bronchial vascular metabolic and pharmacokinetic activity toward benzoyl-Phe-Ala-Pro (BPAP), and ADP, adenosine, and PGE2 was studied by developing an isolated sheep bronchial circulation preparation. Mean transit time (.hivin.t), uptake, and metabolism were measured by injecting [3H]-labeled substrates with [14C] sucrose into the bronchial artery of sheep lungs stripped clean of parenchymal tissue. After [3H]BPAP the .hivin.t for 3H was the same as for 14C. Thirty-six percent of the

injected BPAP was converted to metabolite ([3H]benzoyl-Phe) in a single pass. An inhibitor of angiotensin-converting enzyme, SQ 20,881, depressed BPAP metabolism by 50%, whereas perfusion of the bronchial circulation with glutaraldehyde reduced metabolism to a basal level. After [3H]ADP the .hivin.t for 3H was again the same as for 14C. 3H recovery after 40 pmol [3H]ADP was less (58%) than after 400 nmol [3H]ADP (79%). Twenty-two percent of the injected radioactivity emerged in the effluent as metabolites of ADP for either dose. Adenosine and PGE2 uptake was negligible, and most of the recovered radioactivity in each case was unchanged substrate. Evidently, the bronchial circulation is pharmacokinetically and metabolically active with respect to vasoactive mediators like angiotensin I, bradykinin, and adenine nucleotides, and the enzymes responsible for this metabolic activity line the vascular lumen.

IT 69677-91-4

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(metabolism and pharmacokinetics of, in bronchial circulation)

RN 69677-91-4 HCAPLUS

CN L-Proline, N-benzoyl-L-phenylalanyl-L-alanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L29 ANSWER 7 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1989:571581 HCAPLUS

DOCUMENT NUMBER: 111:171581

TITLE: Effect of transit time on metabolism of a pulmonary

endothelial enzyme substrate

AUTHOR(S): Dawson, Christopher A.; Bongard, Robert D.; Rickaby,

David A.; Linehan, John H.; Roerig, David L.

CORPORATE SOURCE: Dep. Physiol., Med. Coll. Wisconsin, Milwaukee, WI,

53226, USA
SOURCE: American Journal of Physiology (1989), 257(3, Pt. 2),

H853-H865

CODEN: AJPHAP; ISSN: 0002-9513

DOCUMENT TYPE: Journal LANGUAGE: English

AB Fractional hydrolysis (M) of the synthetic angiotensin-converting enzyme (ACE) substrate [3H]benzoyl-Phe-Ala-Pro (BPAP) on passage through the isolated dog lung lobe was relatively independent of flow rate and transit time (t). The most commonly expressed explanation for this kind of observation is that recruitment of ACE-containing surface area occurs when flow is increased. To test this, as well as other hypotheses that might explain the behavior of this substrate, M obtained after the 1st pass of a BPAP-containing bolus through isolated rabbit lungs was compared with that obtained after 2 sequential passes through the lungs. In this way, t could be doubled with no change in flow or vascular pressure. When the 2nd pass occurred within a few seconds of the first, M after both the 1st

and 2nd pass was only slightly larger than that after the 1st pass alone. If the time between passes was increased to a few minutes, M after the 2nd pass was substantially increased. These results are contrary to the recruitment hypothesis and suggest that this substrate may exist in alternative forms that are in slow equilibrium relative to the capillary t. When albumin was present in the perfusate, an albumin-bound fraction appeared to be 1 such alternative form. However, expts. carried out using protein-free perfusate suggest the possibility that conformational variants of the substrate may also exist.

IT 69677-91-4

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(metabolism of, by angiotensin-converting enzyme of pulmonary endothelium, transit time effect on)

RN 69677-91-4 HCAPLUS

CN L-Proline, N-benzoyl-L-phenylalanyl-L-alanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L29 ANSWER 8 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1988:523935 HCAPLUS

DOCUMENT NUMBER: 109:123935

TITLE: Pulmonary angiotensin-converting enzyme activity in

the oxygen-toxic sheep

AUTHOR(S): Howell, Ralph E.; Hansen-Flaschen, John H.; Wheeldon,

Eric B.

CORPORATE SOURCE: Sch. Med., Univ. Pennsylvania, Philadelphia, PA, USA

SOURCE: American Review of Respiratory Disease (1988), 138(1),

160-6

CODEN: ARDSBL; ISSN: 0003-0805

DOCUMENT TYPE: Journal LANGUAGE: English

AB The activity of pulmonary endothelial angiotensin-converting enzyme (ACE) was studied in 5 unanesthetized adult sheep that breathed 100% O via tracheostomy for 3 days and in 4 other sheep that breathed compressed air. In contrast to the sheep that breathed air, the sheep that breathed O developed substantial arterial hypoxemia and hypercapnia, an increased alveolar-to-arterial O gradient, and a slight respiratory acidosis. Morphol. examination of lungs from sheep that breathed O revealed a multifocal distribution of injury, including interstitial edema, capillary endothelial damage, and alveolar epithelial damage. Indicator-dilution methods were used to assess first-pass pulmonary metabolism of the ACE substrate [3H]benzoyl-Phe-Ala-Pro (BPAP) and the apparent kinetics (KM and Vmax) of ACE activity. Pulmonary metabolism of BPAP exhibited saturability, was reduced by an ACE inhibitor (enalaprit), and did not result from the activity of circulating plasma ACE. There was no difference between the 2 groups of sheep in the percent metabolism of either 0.1 μmol BPAP/kg or 1.0

µmol BPAP/kg or in the KM of BPAP metabolism. In both groups, the Vmax and Vmax/KM decreased as a result of redns. in cardiac output and volume of distribution. To further examine pulmonary endothelial ACE activity, the first-pass pulmonary uptake of an ACE inhibitor, [14C]captopril, was assessed in 4 addnl. sheep that breathed O; [14C]captopril uptake remained unchanged from control. Evidently, in sheep, 3 days of O breathing causes moderately severe gas exchange abnormalities and capillary damage without impairing pulmonary endothelial ACE activity.

IT 69677-91-4

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(metabolism of, by lung, angiotensin-converting enzyme in relation to) RN 69677-91-4 HCAPLUS

CN L-Proline, N-benzoyl-L-phenylalanyl-L-alanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L29 ANSWER 9 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1988:16827 HCAPLUS

DOCUMENT NUMBER: 108:16827

TITLE: Effect of flow and surface area on

angiotensin-converting enzyme activity in rabbit lungs

AUTHOR(S): Moalli, Richard; Pitt, Bruce R.; Gillis, C. Norman CORPORATE SOURCE: Sch. Med., Yale Univ., New Haven, CT, 06510, USA

SOURCE: Journal of Applied Physiology (1987), 62(5), 2042-50

CODEN: JAPHEV; ISSN: 8750-7587

DOCUMENT TYPE: Journal LANGUAGE: English

Pulmonary angiotensin-converting enzyme (ACE) is located on the luminal surface of pulmonary microvasculature. Multiple indicator-dilution techniques were used to measure pulmonary ACE activity in vivo and in isolated lungs. Apparently, ACE activity is depressed in several forms of acute lung injury. Depression of ACE activity may reflect impaired substrate delivery to enzyme sites because of flow-related reduction of perfused surface area. To assess the role of altered microvascular flow and surface area in the measurement of ACE activity, similar techniques were used to estimate the apparent Km and Vmax of pulmonary ACE in isolated, Krebs-perfused rabbit lungs. Km Is an estimate of the affinity of a synthetic ACE substrate, [3H] PhCO-Phe-Ala-Pro-OH, for ACE and should not be influenced by the rate of substrate delivery to luminal enzyme sites. Conversely, Vmax is an index of the number of ACE sites and should be influenced by perfusion changes that alter the number of perfused sites (recruitment or derecruitment). When isolated lungs were subjected to physiol. maneuvers designed to increase or decrease perfused surface area, apparent Vmax increased or decreased resp. Apparent Km was not altered by these maneuvers. Km And Vmax were independent of changes in perfusion rate when surface area was held constant Thus, these parameters should be

useful in evaluating perfusion changes in normal and injured lungs. IT 69677-91-4. Benzovl-phenylalanyl-alanyl-proline

69677-91-4, Benzoyl-phenylalanyl-alanyl-proline
RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction of, with angiotensin-converting enzyme of lung, kinetics of)

RN 69677-91-4 HCAPLUS

CN L-Proline, N-benzoyl-L-phenylalanyl-L-alanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L29 ANSWER 10 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1987:618077 HCAPLUS

DOCUMENT NUMBER:

107:218077

TITLE:

Preparation of LHRH analogs

INVENTOR(S):

Horvath, Aniko; Keri, Gyoergy; Gulyas, Tamas; Teplan,

Istvan; Vigh, Sandor; Bokonyi, Gyorgy

PATENT ASSIGNEE(S):

Innofinance Altalanos Innovacios Penzintezet, Hung. Ger. Offen., 15 pp.

SOURCE:

CODEN: GWXXBX

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3700166	A1	19870709	DE 1987-3700166	19870105
HU 43090	A2	19870928	HU 1986-16	19860103
HU 194913	В	19880328	110 1300 10	17000103
NL 8603291	А	19870803	NL 1986-3291	19861223
JP 62228099	A2	19871006	JP 1986-309288	19861227
JP 06031314	B4	19940427	01 1900 309200	17001227
CH 670830	А	19890714	CH 1986-5230	19861229
FI 8605347	A	19870704	FI 1986-5347	19861230
FI 85866	В	19920228		17001230
FI 85866	С	19920610		
SE 8700016	А	19870704	SE 1987-16	19870102
GB 2185025	A1	19870708	GB 1987-17	19870102
GB 2185025	B2	19891228		17070102
FR 2595705	A1	19870918	FR 1987-6	19870102
FR 2595705	B1	19901012	-11 250, 0	17070102
US 4758552	А	19880719	US 1987-177	19870102
PRIORITY APPLN. INFO	·.:		HU 1986-16	19860103
AB Glp-His-Ser-Tyr	-X1-X2-X3-F	ro-X4 (I: X	1 = 0 - or m-HNC6H4CO;	X2 - Leu Trn
Phe: $X3 = \Delta ra$	Leu Glue Y	$A = Cl_{X-MHO}$	NUEL CIT WINCONTCO,	Λε = neu, rrp,

AB Glp-His-Ser-Tyr-X1-X2-X3-Pro-X4 (I; X1 = o- or m-HNC6H4CO; X2 = Leu, Trp, Phe; X3 = Arg, Leu, Glu; X4 = Gly-NH2, NHEt; Glp = pyroglutamyl) were prepared as LHRH analogs (no data). Glp-His-Trp-Ser-Tyr-Aa-Leu-Gln-Pro-NHEt (Aa = anthranilic acid residue) was prepared using the solution-phase method. Injections containing 1-10 mg I/mL water, saline, or aqueous buffer may be prepared

IT 111331-69-2P 111331-70-5P

RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as **drug**)

RN 111331-69-2 HCAPLUS

CN Luteinizing hormone-releasing factor (swine), 6-(2-aminobenzoic acid)-8-L-glutamine-9-(N-ethyl-L-prolinamide)-10-deglycinamide- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

HN N OH
$$H_2N$$
 OH H_2N OH H_2N OH H_2N OH H_3N OH H_3N

PAGE 1-B

RN 111331-70-5 HCAPLUS

CN Luteinizing hormone-releasing factor (swine), 6-(2-aminobenzoic acid)-9-(N-ethyl-L-prolinamide)-10-deglycinamide- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

L29 ANSWER 11 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1986:569766 HCAPLUS

DOCUMENT NUMBER:

105:169766

TITLE:

Effects of alveolar pressure on lung

angiotensin-converting enzyme function in vivo

AUTHOR(S): Toivonen, Hannu J.; Catravas, John D.

CORPORATE SOURCE:

Dep. Pharmacol. Toxicol., Med. Coll. Georgia, Augusta,

GA, 30912, USA

SOURCE:

Journal of Applied Physiology (1986), 61(3), 1041-50

CODEN: JAPHEV; ISSN: 8750-7587

DOCUMENT TYPE: Journal LANGUAGE: English

The effects of airway pressure on endothelial plasmalemmal angiotensin-converting enzyme function were studied in rabbit lungs in vivo. Static inflation of the lungs to a pressure of 0 or 5 Torr did not change percent transpulmonary metabolism and Amax/Km ratio (defined as enzyme mass (E) + catalytic constant (Kcat) Km and thus, under normal conditions, an indirect measure of perfused endothelial luminal surface area) compared with control measurements during conventional mech. ventilation. When the inflation pressure was increased to 10 Torr, percent metabolism of 3H-labeled benzoyl-L-phenylalanyl-L-alanyl-L-proline (BPAP) remained unaltered but Amax/Km decreased to 60% of the control value. This decrease was in close relation to the decrease in pulmonary blood flow. Addition of 5 cmH2O pos. end-expiratory pressure (PEEP) to the mech. ventilation also decreased Amax/Km values and pulmonary blood flow but did not influence percent metabolism [3H]BPAP. These results suggest that the detected alterations in apparent enzyme kinetics were more likely due to hemodynamic changes than to alterations in angiotensin-converting enzyme function. Thus, high static alveolar pressures as well as PEEP probably reduced the fraction of perfused microvessels as reflected in changes in Amax/Km ratios. This information should prove useful in interpreting the response of pulmonary endothelial enzymes to injury.

IT 69677-91-4

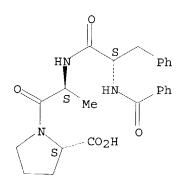
RL: PRP (Properties)

(degradation of, by angiotensin-converting enzyme of lung, kinetics of, alveolar pressure effect on)

RN 69677-91-4 HCAPLUS

CN L-Proline, N-benzoyl-L-phenylalanyl-L-alanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L29 ANSWER 12 OF 12 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1984:18361 HCAPLUS

DOCUMENT NUMBER: 100:18361

TITLE: Pulmonary metabolic function in the awake lamb:

effect of development and hypoxia

AUTHOR(S): Pitt, Bruce R.; Lister, George

CORPORATE SOURCE: Sch. Med., Yale Univ., New Haven, CT, 06510, USA

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383-91

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AB The effect of postnatal development and acute alveolar hypoxia on pulmonary metabolic function was studied in conscious newborn lambs. The ability of the lungs of these animals to metabolize 3H-labeled

benzoyl-L-phenylalanyl-L-alanyl-L-proline (BPAP) [69677-91-4], a synthetic substrate for angiotensin-converting enzyme (ACE) [9015-82-1], and to remove 14C-labeled 5-hydroxytryptamine (5-HT) [50-67-9] were determined during normoxic and hypoxic conditions at 1 day, 1 wk, and 1 mo of age. Addnl. sheep (8-23-wk-old) were studied acutely as adult controls. BPAP metabolism in the 1-day-old group was 48% and increased slowly to 57% at 1 mo of age and to 79% by 23 wk of age. Pulmonary 5-HT removal was adultlike at birth. Alveolar hypoxia significantly decreased BPAP only in the 1-day-old group and had no significant effect on 5-HT removal over the range of ages studied. These data demonstrate a selective and gradual postnatal development of pulmonary ACE which could be due to alterations in either the affinity or maximum capacity of pulmonary ACE, or increased endothelial cell surface area secondary to rapid growth of small blood vessels in this period. Alveolar hypoxia does not appear to closely regulate either ACE activity or 5-HT removal in conscious lambs >1 day old when trace amts. of substrate are used.

IT 69677-91-4

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(metabolism of, by lung during development, hypoxia effect on)

RN 69677-91-4 HCAPLUS

CN L-Proline, N-benzoyl-L-phenylalanyl-L-alanyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

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